

Title

Seminal plasma induces inflammation in the uterus through the $\gamma\delta$ T/IL-17 pathway

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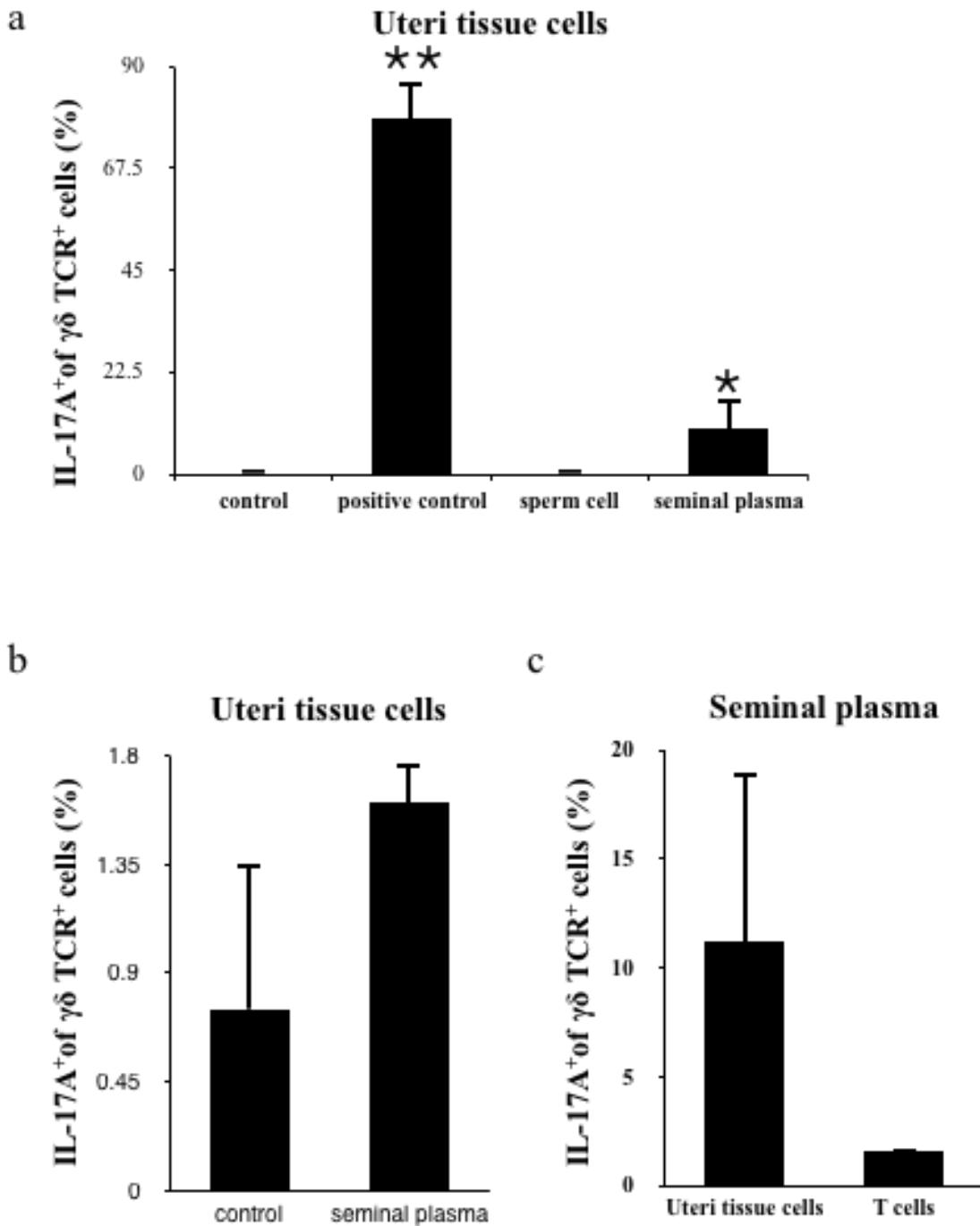
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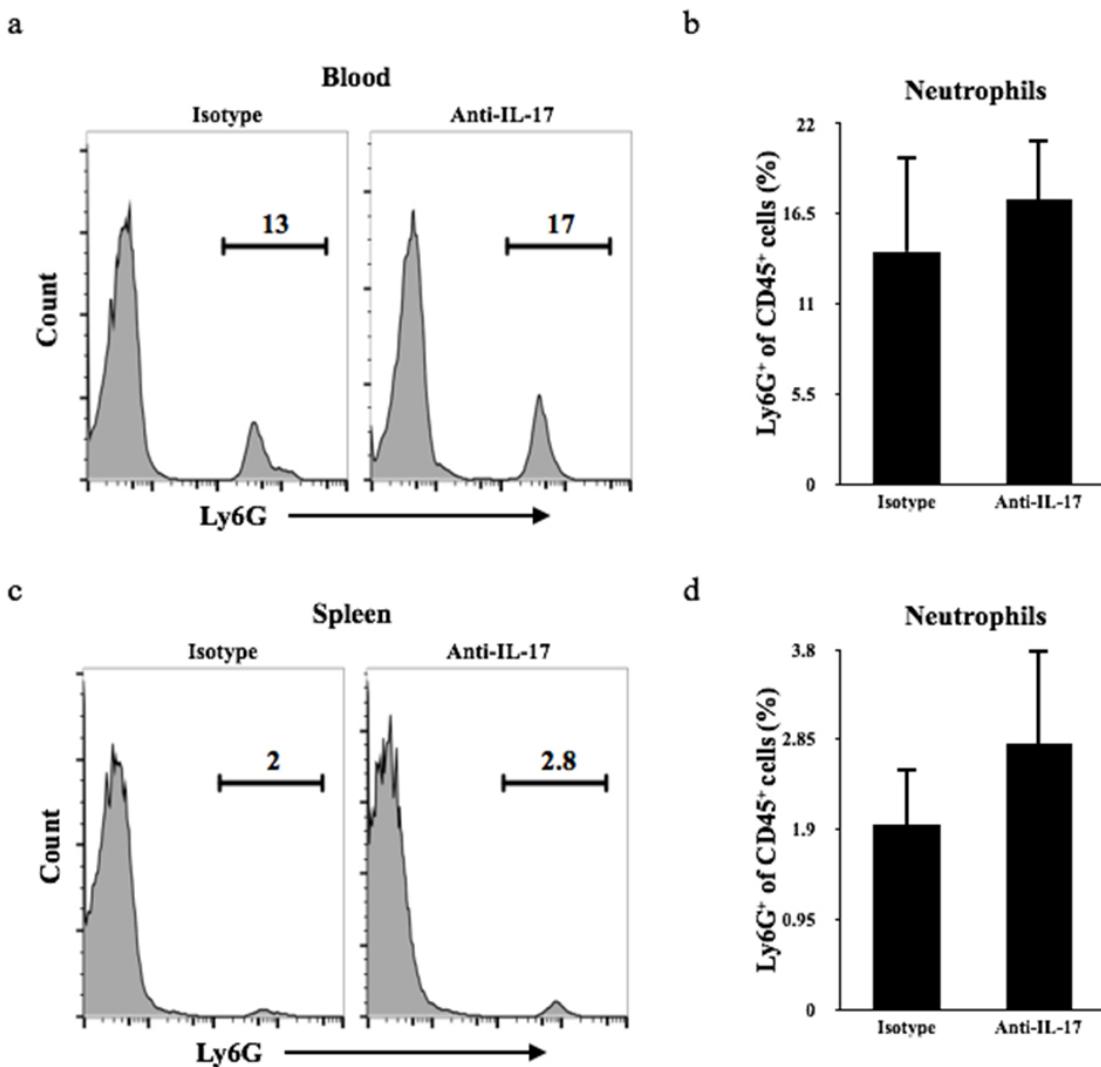
Gene	Primer Sequence	
IL-17A	forward	5'-GGCCCTCAGACTACCTCAAC-3'
	reverse	5'-TCTCGACCCTGAAAGTGAAGG-3'
CXCL1	forward	5'-ACTGCACCCAAACCGAAGTC-3'
	reverse	5'-TGGGGACACCTTTAGCATCTT-3'
CXCL2	forward	5'-CCAACCACCAGGCTACAGG-3'
	reverse	5'-GCGTCACACTCAAGCTCTG-3'
CXCL5	forward	5'-TGC GTTGTTGCTTAACCG-3'
	reverse	5'-CTTCCACCGTAGGGCACTG-3'
CCL20	forward	5'-ACTGTTGCCTCTCGTACATACA-3'
	reverse	5'-GAGGAGGTTCACAGCCCTTT-3'
MMP2	forward	5'-ACCTGAACACTTCTATGGCTG-3'
	reverse	5'-CTTCCGCATGGTCTCGATG-3'
MMP9	forward	5'-GCAGAGGCATACTTGTACCG-3'
	reverse	5'-TGATGTTATGATGGTCCCCTTG-3'
IL-1β	forward	5'-GGACAGAACATCAACCAACAAGTGATA-3'
	reverse	5'-GTGTGCCGTCTTCATTACACAG-3'
IL-4	forward	5'-GGTCTCAACCCCCAGCTAGT-3'
	reverse	5'-GCCGATGATCTCTCTCAAGTGAT-3'
IL-6	forward	5'-AACCA CGGCCTCCCTACT-3'
	reverse	5'-CATTCCACGATTCCCAGA-3'

IL-10	forward	5'-CGCAGCTCTAGGAGCATGTG-3'
	reverse	5'-AGGAGCTGTCATTAGGGACATC-3'
COX2	forward	5'-TGAGCAACTATTCCAAACCAGC-3'
	reverse	5'-GCACGTAGTCTCGATCACTATC-3'
TGF-β	forward	5'-CTTCAATAACGTCAGACATTGGG-3'
	reverse	5'-GTAACGCCAGGAATTGTTGCTA-3'
TNF-α	forward	5'-CTGAACCTCGGGGTGATCGG-3'
	reverse	5'-GGCTTGTCACTCGAATTGAGA-3'
IFN-γ	forward	5'-ACAGCAAGGCGAAAAAGGATG-3'
	reverse	5'-TGGTGGACCCTCGGATGA-3'
GAPDH	forward	5'-AGGTGGTGTGAACGGATTG-3'
	reverse	5'-GGGGTCGTTGATGGCAACA-3'

Supplementary Table 1. Primers for the detection of mRNA expression by Real-time PCR.



Supplementary Figures 1. Analysis for percentage of IL-17A positive proportion in $\gamma\delta$ T cells. (a) and (b) statistical analysis for figure 2e and f. Data show the mean \pm S.E.M summary of four (figure 2e) or three (figure 2f) independent experiments with independent samples T-test (c) Uterine tissue cells and T cells sorted from uterine tissue cells stimulated with the 0.5% seminal plasma. Data show the mean \pm S.E.M summary of four (uteri tissue cells) or three (T cells) independent experiments with independent samples T-test ($P=0.076$).



Supplementary Figures 2. IL-17A blocking did not changes the percentage of neutrophils in blood and spleen. (a) and (b) Percentage of neutrophils in the CD45 gated population in blood. Numbers represent the percentage of population within the indicated gates. (c) and (d) Percentage of neutrophils in the CD45 gated population in spleen. Numbers represent the percentage of population within the indicated gates. Data show the mean \pm S.E.M summary of four independent experiments with independent samples T-test.